INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/013851

A CLASSII	FICATION OF SUBJECT MARTER		PCT/JP20	04/013851
Int.C	1 C01B31/02, C23C16/48, H01L H01L21/28	29/06, Н01L29/78		
According to 1	nternational Patent Classification (IPC) or to both nat	tional classification and IPC		
B. FIELDS S	SEARCHED			
Minimum doc	umentation searched (classification system followed b	y classification symbols)		
Int.C.	1 ⁷ C01B31/02, C23C16/48, H01L H01L21/28	29/06, H01L29/78	6, но1L21/3	3205,
Documentation	a searched other than minimum documentation to the	extent that such documents ar	e included in the fi	elds searched
Kokai	Jitsuyo Shinan Koho 1971-2004	Jitsuyo Shinan Toro	nan Koho 1 oku Koho 1	994-2004 996-2004
WEB OF	base consulted during the international search (name SCIENCE, JOIS [nanotube, tra	of data base and, where pract nsistor]	icable, search term	s used)
C. DOCUME	NTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where	appropriate, of the relevant p	assages	Relevant to claim No.
X	JP 2003-238123 A (NEC Corp.	.),		1-6,8,9,16,
Α	27 August, 2003 (27.08.03), Par. No. [0042] (Family: none)			17 7,10-15
X A	Yoshikazu HOMMA, et al., Grocarbon nanotube networks on silicon pillars, APPL.PHYS.12002 (16.09.02), Vol.81, No.2263	100-nm-scale	ĺ	18,19,21,23 20
	cuments are listed in the continuation of Box C.	See patent family ar	mex.	
document de	cular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the priorities of the state.		
	ation or patent but published on or after the international	the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
" document wi	hich may throw doubts on priority claim(s) or which is			
special reason	n (as specified)	"Y" document of particular relevance: the claimed invention com-		d invention cannot be
" document ref document put the priority de	erring to an oral disclosure, use, exhibition or other means blished prior to the international filing date but later than ate claimed	considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family		
te of the actual	completion of the international search	Date of mailing of the inter	national search ren	ort
TO Decei	mber, 2004 (13.12.04)	28 December,	2004 (28.	12.04)
me and mailing	address of the ISA/	Authorized officer		
Japanes	e Patent Office			
esimile No.	(second sheet) (January 2004)	Telephone No.		
C1/15/WZ10	(second sheet) (January 2004)			

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			004/013851
C (Continuation).	DOCUMENTS CONSIDERED TO BE RELEVANT		4
Category*	Citation of document, with indication, where appropriate, of the relevant passages Seizo KINOSHITA et al., "Ichi Seigyo Seicho Carbon Nanotube ni yoru Shitsuon Coulomb Blockade", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 29 January, 2002 (29.01.02), Vol.101, No.618, pages 47 to 52		Relevant to claim No.
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A	J. FUJITA et al., Graphitization of Fe-do amorphous carbon pillaras grown by focuse ion-beam-induced chemical-vapor deposition. J. Vac. Sci. Technol. B, 2002, November/Decervol. 20, No. 6, pages 2686 to 2689	ed- on,	1-23
A	JP 2003-017508 A (NEC Corp.), 17 January, 2003 (17.01.03), Full text & EP 1411554 A1		22